

## EARTH LEAKAGE DETECTION DEVICE

## ABSTRACT

An earth leakage detection device (14) includes a housing (52) and an earth leakage detection circuit (114) mounted within said housing (52) for detecting earth leakage in the electrical distribution circuit. A dielectric test switch (115) is arranged between the electrically conductive strap (18) and the earth leakage detection circuit (114). Pressing the button (84) causes said dielectric test switch (115) to stop the flow of electrical current from said electrically conductive strap (18) to said earth leakage detection circuit (114) to protect the circuit (114) during dielectric testing. A lever arm (605), pivotally secured within said housing (52), causes said trip/reset mechanism (116) to actuate the circuit breaker (12) when said button (84) is pressed. The trip/reset mechanism (116) is resiliently mounted within said housing (52), independently from said transformer (182). An auxiliary switch driver (224) is attached to an auxiliary switch carrier (225) for positioning a plunger (222) of an auxiliary switch (112) mounted to the housing of the trip/reset mechanism (116). An electronic component and transformer mounting structure (118), along with a transformer mounting cover (148) form an electrically insulative barrier between said toroidal assembly (284) and said plurality of electrically conductive pass-through straps (286).